

DEPARTMENT OF TRANSPORTATION**DIVISION OF ENGINEERING SERVICES**

Office of Structural Materials

Quality Assurance and Source Inspection



Bay Area Branch
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Contract #: 04-0120F4Cty: SF/ALA Rte: 80 PM: 13.2/13.9File #: 69.28**WELDING INSPECTION REPORT****Resident Engineer:**Siegenthaler, Peter**Address:** 333 Burma Road**City:** Oakland, CA 94607**Report No:** WIR-019520**Date Inspected:** 23-Jan-2011**Project Name:** SAS Superstructure**OSM Arrival Time:** 700**Prime Contractor:** American Bridge/Fluor Enterprises, a JV**OSM Departure Time:** 1900**Contractor:** Zhenhua Port Machinery Company, Ltd (ZPMC), Changxing Island **Location:** Shanghai, China**CWI Name:** Mr. Qiu wen**CWI Present:** Yes No**Inspected CWI report:** Yes No N/A**Rod Oven in Use:** Yes No N/A**Electrode to specification:** Yes No N/A**Weld Procedures Followed:** Yes No N/A**Qualified Welders:** Yes No N/A**Verified Joint Fit-up:** Yes No N/A**Approved Drawings:** Yes No N/A**Approved WPS:** Yes No N/A**Delayed / Cancelled:** Yes No N/A**Bridge No:** 34-0006**Component:** Orthotropic Box Girder(OBG)**Summary of Items Observed:**

This CALTRANS OSM Quality Assurance Inspector (QA) Surendra Prabhu was present during the times noted above for observations relative to the fabrication of the Self Anchored Suspension (SAS) Superstructure being performed by Zhenhua Port Machinery Company (ZPMC) at Changxing Island, in Shanghai, China. QA observed and/or found the following:

OBG Assembly Bay- 14.

This QA Inspector randomly observed the following work in progress:

Flux Cored Arc Welding (FCAW) Repair welding of weld joint identified as SEG3020BB-028. Welder is identified as 066695. ZPMC Quality Control (QC) is identified as Mr. Zhulin. The welding variables recorded by QC personnel observed appeared to comply with Welding Procedure Specification (WPS): WPS-345-FCAW-2G (2F)-ESAB-Repair-FCM. The repair welding was being performed as per Critical Welding Repair Report (CWR) No: B-CWR2752.This weld was previously rejected by ZPMC QC personnel and recorded on UT report B787-UT-18580.

Shielded Metal Arc Welding (SMAW) Repair welding of weld joint identified as AH3001-097. Welder is identified as 067904. ZPMC Quality Control (QC) is identified as Mr. Zheng zhi wei. The welding variables recorded by QC personnel observed appeared to comply with WPS: WPS-345-SMAW-3G (3F)-FCM-Repair. The repair welding was being performed as per approved Welding Repair Report (WRR) No: B-WR20163.This weld was previously rejected by ZPMC QC personnel and recorded on UT report B787-UT-19663.

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FCAW welding of weld joint identified as SEG3013AX-131. Welder is identified as 067876. ZPMC Quality Control (QC) is identified as Mr. Liu fang. The welding variables recorded by QC personnel observed appeared to comply with WPS: WPS-B-T-2233-ESAB.

SMAW welding of weld joint identified as SEG3020AX-017,022. Welder is identified as 067609. ZPMC Quality Control (QC) is identified as Mr. Zhulin. The welding variables recorded by QC personnel observed appeared to comply with WPS: WPS-B-P-2214-TC-U4b-FCM.

SMAW welding of weld joint identified as DP3171-001-133,134. Welder is identified as 037779. American Bridge/Fluor (AB/F) QA is identified as Mr. Shen jian. The welding variables recorded by QA personnel observed appeared to comply with WPS: WPS-B-P-2213-TC-U4b-FCM-1.

SMAW welding of weld joint identified as DP3170-001-111,114. Welder is identified as 045676. AB/F QA is identified as Mr. Shen jian. The welding variables recorded by QA personnel observed appeared to comply with WPS: WPS-B-P-2213-TC-U4b-FCM-1.

SMAW welding of weld joint identified as DP3148-001-243,244. Welder is identified as 045204. ZPMC Quality Control (QC) is identified as Mr. Zhang lin. The welding variables recorded by QA personnel observed appeared to comply with WPS: WPS-B-P-2213-TC-U4b-FCM-1.

SMAW welding of weld joint identified as DP3148-001-249,250. Welder is identified as 045204. ZPMC Quality Control (QC) is identified as Mr. Zhang lin. The welding variables recorded by QA personnel observed appeared to comply with WPS: WPS-B-P-2213-TC-U4b-FCM-1.

ZPMC QC UT Technician was performing Ultrasonic Testing for the welds located on grillage plate identified as SA7512A. Refer the attached photos for reference.

Unless otherwise noted, all work observed on this date appeared to generally comply with applicable contract documents.



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Summary of Conversations:

No significant conversations were reported on this date.

Comments

This report is for the purpose of determining conformance with the contract documents and is not for the purpose of making repair or fit for purpose recommendations. Should you require recommendations concerning repairs or remedial efforts please contact Eric Tsang 15000422372, who represents the Office of Structural Materials for your project.

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| Inspected By: | Prabhu,Surendra | Quality Assurance Inspector |
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| Reviewed By: | Peterson,Art | QA Reviewer |
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